

ALTERNATIVE TO PTO/SB/06A/B  
(Based on PTO 08-06 version)

Substitute for form 1449/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/562,110	
			Filing Date	February 1, 2007	
			First Named Inventor	Masataka NAKAMURA	
			Art Unit	1795	
			Examiner Name	L. Mohaddes	
Sheet	1	of	3	Attorney Docket Number	360842012600

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1.	5,741,408	04/21/1998	Helmer-Metzmann et al.	
	2.	6,365,294	04/02/2002	Pintauro et al.	
	3.	2002/0045085	04/18/2002	Formato et al.	
	4.	2002/0091225	07/11/2002	McGrath et al.	
	5.	6,447,943	09/10/2002	Peled et al.	
	6.	6,828,353	12/07/2004	Charnock et al.	
	7.	2006/0180796	08/17/2006	Adachi et al.	
	8.	2008/0075999	03/27/2008	Izuhara et al.	
	9.	7,713,449	05/11/2010	Adachi et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Column, Lines, Where Relevant Passages Or Relevant Figures Appear	†
		Country Code*	Number*Kind Code* (if known)				
ly	10.	JP	53-26777	03-13-1978	Sumitomo Chemical Co. (Kishiyou MURAKAMI et al.)	English translation of abstract	
	11.	JP	56-34329	08-10-1981	Sumitomo Chemical Co. (Kishiyou MURAKAMI et al.)	English translation of abstract	
	12.	JP	64-22932	01-25-1989	TOA Nenryo Kogyo KK (Takui ITO et al.)	English translation of abstract	
	13.	JP	5-271460	10-19-1993	Dainippon Ink & Chem. Inc. (Kazunari SAKAI et al.)	English translation of abstract	
	14.	JP	8-180891	07-12-1996	Tonen Corp. (Yuzo IZUMI et al.)	English translation of abstract	
	15.	JP	10-340732	12-22-1998	Toyota Central Res. & Dev. Lab Inc. (Kyoto HAMAMURA et al.)	English translation of abstract	
	16.	WO	00/15691	03/23/2000	Victrex Manufacturing Limited (Peter CHARNOCK et al.)		
	17.	WO	01/19896	03-22-2001	Victrex Manufacturing Limited (Brian WILSON et al.)		
	18.	JP	2001-504636	04-03-2001	University of Southern California; California Institute of Technology (G. K. PRAKASH et al.)	Abstract of corresponding WO-98/22989	
	19.	JP	2001-294705	10-23-2001	Nitto Denko Corp. (Shigeru FUJITA et al.)	English translation of abstract	
	20.	JP	2001-294706	10-23-2001	Nitto Denko Corp. (Shigeru FUJITA et al.)	English translation of abstract	
	21.	JP	2002-110200	04-12-2002	Toshiba Corp. (Yoshihiko NAKANO et al.)	English translation of abstract	
	22.	JP	2002-524631	08-06-2002	Victrex Manufacturing Limited (Brian WILSON et al.)	Abstract of corresponding WO-00/15691 and WO-01/19896 listed above	

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Sheet	2	of	3
		Attorney Docket Number	360842012600

Abstract Only

	23.	JP-2002-226575	08-14-2002	JSR Corp. (Kohei GOTO et al.)	English translation of abstract	
	24.	JP-2002-260687	09-13-2002	Sumitomo Chem. Co., Ltd. (Atsushi TERAHARA et al.)	English translation of abstract	
	25.	JP-2002-293889	10-09-2002	JSR Corp. (Kohei GOTO et al.)	English translation of abstract	
	26.	JP-2002-324559	11-08-2002	Toyota Central Research & Development (Naoki HASEGAWA et al.)	English translation of abstract	
	27.	JP-2003-012835	01-15-2003	Asahi Glass Co., Ltd. (Yoshio SUGAYA et al.)	English translation of abstract	
	28.	JP-2003-217342	07-31-2003	Toyoba Co., Ltd. (Kota KITAMURA et al.)	English translation of abstract	
	29.	JP-2003-217343	07-31-2003	Toyoba Co., Ltd. (Kota KITAMURA et al.)	English translation of abstract	
	30.	JP-2003-217365	07-31-2003	Toyoba Co., Ltd. (Kota KITAMURA et al.)	English translation of abstract	
	31.	WO-03/095509	11-20-2003	Polyfuel, Inc. (Shuguang CAO et al.)		
	32.	WO-2004/036679	04-29-2004	Toyo Boseki Kabushiki Kaisha (Kota KITAMURA et al.)	English translation of abstract	
	33.	JP-2004-247252	09-02-2004	Fuji Photo Film Co., Ltd. (Kimiatsu NOMURA)	English translation of abstract	
	34.	JP-2005-019055	01-20-2005	Toray Ind. Inc. (Masataka NAKAMURA et al.)	English translation of abstract	
V	35.	JP-2005-174897	06-30-2005	Toray Ind. Inc. (Masaya ADACHI et al.)	English translation of abstract	
Examiner Signature	/Ladan Mohaddes/			Date Considered	03/17/2011	

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T*
	36.	Bailly, C. et al. (1987). "The Sodium Salts of Sulphonated Poly(aryl-ether-ether-ketone) (PEEK): Preparation and Characterization." <i>Polymer</i> 28: 1009-1016			
	37.	Nolte, R. et al. (1993). "Partially Sulfonated Poly(arylened ether sulfone) - A Versatile Proton Conducting Membrane Material for Modern Energy Conversion Technologies." <i>Journal of Membrane Science</i> . 83: 211-220			
	38.	Tang, H. et al. (1999). "Polyphosphazene Membranes. III. Solid-State Characterization and Properties of Sulfonated Poly[bis(3-methylphenoxy) phosphazene]" <i>Journal of Applied Polymer Science</i> 71: 387-399			

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		<b>Art Unit</b>	<b>1795</b>
		<b>Examiner Name</b>	<b>L. Mohaddes</b>
		<b>Attorney Docket Number</b>	<b>360842012600</b>
<b>Sheet</b>	<b>3</b>	<b>of</b>	<b>3</b>

39.	Ishikiriya K. et al. (1995). "Pore Size Distribution (PSD) Measurements of Silica Gels by Means of Differential Scanning Calorimetry." <i>Journal of Colloid and Interface Science</i> 171:92-102	
40.	Smith, C.D. et al. (1991). "Unique Characteristics Derived From Poly( Arylene Ether Phosphine Oxide)s," <i>High Performance Polymers Vol. 3</i> (4):211-229.	
41.	Wang, F et al.(2000). " Synthesis of Sulfonated Poly (Arylene Ether Sulfone)S Via Direct Polymerization," <i>Polymer Preprints Vol. 41</i> (1):237-238.	
42.	Greenley, R. (1999). "Q and e Values for Free Radical Copolymerizations of Vinyl Monomers and Telogens." Chapter II in <i>Polymer Handbook</i> , John Wiley & Sons, Inc. pp.309-319	
43.	Takenaka, H. et al. (1985). "Studies on Solid Polymer Electrolyte Water Electrolysis II, Preparation Methods for Membrane-Electrocatalyst Composite." <i>Denki Kagaku</i> 53(4): 261	
44.	Ticiandelli, E. A. et al. (1988). "Method to Advance Technology of Proton Exchange Membrane Fuel Cells." <i>Mass Transfer</i> 135 (9): 2209-2214	
45.	Hatanaka, T. (2002). "Direct Methanol Fuel Cell." R & D Review of Toyota CRDL, 37(1):59-64 (English language translation of abstract)	
46.	Lafitte, B. et al. (2002). "Sulfophenylation of Polysulfones for Proton-Conducting Fuel Cell Membranes." <i>Macromolecular Rapid Communications</i> . 23(15):896-900	
47.	Adachi, U.S Office Action mailed on January 27, 2009 directed at related application no. 10/548,110; 9 pages.	
48.	Adachi, S. et al. U.S. Office Action mailed August 4, 2009, directed to a related U.S. Patent Application No. 10/548,110; 12 pages	
49.	Izuhara, D. U.S. Office Action mailed December 9, 2010 directed to a related Patent Application No. 11/661,423; 12 pages	
50.	International Search Report mailed on June 29, 2004, directed to International Patent Application No. PCT/JP2004/002894; 8 pages	✓
51.	International Preliminary Report on Patentability and Written Opinion mailed February 13, 2006, directed to International Patent Application No. PCT/JP2004/002894; 14 pages	✓
52.	International Search Report mailed on December 6, 2005, directed to International Patent Application No. PCT/JP2005/015703; 4 pages	✓
53.	International Preliminary Report on Patentability and Written Opinion mailed March 20, 2007, directed to International Patent Application No. PCT/JP2005/015703; 7 pages	✓

<b>Examiner Signature</b>	/Ladan Mohaddes/	<b>Date Considered</b>	03/17/2011
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